

Programme *Book*

"Achieving Industrial Revolution
4.0 Through Recent Advances in
Continuous Optimization"

23 - 24
NOVEMBER

Hotel 2019
Premiera **KUALA**
LUMPUR

The 8th
ICoGOIA

INTERNATIONAL CONFERENCE ON GLOBAL
OPTIMIZATION AND ITS APPLICATIONS

Organizer

UTHM IORA 
Universiti Tun Hussein Onn Malaysia Indonesian Operations
Research Association



Theme conference

“Achieving Industrial
Revolution 4.0
Through Recent
Advances in
Continuous
Optimization”



The 8th
ICoGOIA



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Foreword

from Chairman

Professor Dr. Abdul Talib bin Bon



Assalamualaikum wbt. and welcome to all participants

On behalf of the organizing committee, it is an honor with great pleasure that I welcome all delegates from all participating countries all around the globe to the 8th International Conference on Global Optimization and Its Applications. ICoGOIA 2019 held in the capital city of Malaysia is Kuala Lumpur.

Our local and international university participants consisting of 120 paper presenters from Malaysia, Indonesia, Thailand, Saudi Arabia, Pakistan, Palestine and others countries. Our conferences university partners that made this event possible, hardworking committee members and all parties which had poured their tireless efforts for the 8th ICoGOIA 2019.

We have been faithful in maintaining "Achieving Industrial Revolution 4.0 Through Recent Advances in Continuous Optimization" as the conference theme, Optimization is a process to achieve the ideal or optimal value of an objective function. In the discipline of mathematics, optimization also refers to the study of problems trying to find the minimum and maximum values of a real function. To achieve these minimum and maximum values, some processes were systematically carried out by selecting integers or real numbers that will provide optimal solutions to ensure its sustainability for the survival of humankind.

My special acknowledgement and congratulation as a co-chairs to committee chairs from UTHM and program chairs from others eleven universities. The Conference Committee has prepared a dynamic scientific programme and have been working hard to present an impressive roster of highly respected and renowned speakers to lead it. Since 2012, ICoGOIA has started initiative of gathering the people in the field of optimization to have a collaborative knowledge sharing and transfer between academicians, industry and both undergraduate and postgraduate students. After having this events conducted in various places around Malaysia and Indonesia as Jatinagor, Bandung, Jogjakarta, Kuantan, Cherating, Melaka and Bali, now it is for Malaysia to host the eighth event. It is such a great pleasure that UTHM in particular to be given the chance to conduct this auspicious event. Thank you once again to the committee members.

ICoGOIA has been a great networking opportunities for the people involved in optimization ever since 2012. The collaboration that once seems to be ambitious now had been proven possible by one miraculous word, unity. In the current global situation, unity had been a far forgotten word. But ICoGOIA had been one of the place that prove unity really works to make good things happen. Cooperation among us today is a proven testimony.

This conference is very beneficial to all of us. I hope that the participants can grab this opportunity to learn and share their knowledge with each other. Respect each new knowledge equally as important, as no knowledge is regarded as more superior than the other. Every knowledge is important. Every person counts.

Our wish is that you will enjoy this conference and take back with you knowledge, experiences, contacts and happy memories of this 8th ICoGOIA 2019. Last but not least, we are most grateful for your participation and support. We also welcome you and your family to enjoy what this capital city has to offer.

Thank you.

PROFESSOR DR ABDUL TALIB BON
Conference Chair
8th International Conference on Global Optimization and Its Applications 2019
(ICoGOIA 2019)



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Programme Schedule

First Day - 23 November 2019 (Saturday)

08.00 am - 09.30 am : Registration

09.30 am - 10.00 am : **Opening Ceremony**
- National Anthem Song “Negaraku”
- Doa Recitation
- Greeting From ICoGOIA 2019 Chairman
- Opening Speech From Professor Dr. Ismail bin Mohd

10.00 am - 10.45 am : **Keynote 1:** Professor Dr. Ir Abdul Hakim Halim

10.45 am - 11.00 am : Tea Break

11.00 am - 11.45 am : **Keynote 2:** Associate Professor Dr. Adibah Shuib

11.45 am - 12.30 pm : **Keynote 3:** Associate Professor Dr. Wichai Chattinnawat

12.30 am - 01.00 pm : Souvenir & Photography Session

01.00 pm - 02.00 pm : Lunch

02.00 pm - 04.00 pm : Parallel Session 1
Parallel Session 2
Parallel Session 3

04.00 pm - 04.15 pm : Tea Break

04.15 pm - 06.00 pm : Continue Parallel Session 1
Continue Parallel Session 2
Continue Parallel Session 3

08.00 pm - 10.30 pm : Gala Dinner (*Theme : Blue and White*)

: Guests Registration
- Arrival of VIP and Guests
- Speech by ICoGOIA 2019 Chairman
- Buffet Dinner
- Performance Show
- Best Paper Award
- Announcement next ICoGOIA2020 Host

End of Day 1



Programme Schedule

Second Day - 24 November 2019 (Sunday)

08.00 am - 09.00 am : Registration

09.00 am - 09.45 am : Keynote 4: Dato' Ir Rohaizi Mohd Jusoh

09.45 am - 10.00 am : Tea Break

10.00 am - 10.45 am : Keynote 5: Professor Dr. Md Haider Ali Biswas

10.45 am - 11.30 am : Industrial Talk

11.30 am - 12.00 pm : Souvenir & Photography Session

12.00 pm - 02.00 pm : Lunch

02.00 pm - 04.00 pm : Parallel Session 1
Parallel Session 2
Parallel Session 3

04.00 pm - 04.15 pm : Tea Break

04.15 pm - 06.00 pm : Continue Parallel Session 1
Continue Parallel Session 2
Continue Parallel Session 3

End



Profile

of Keynote speaker 1

Prof. Dr. Ir. Abdul Hakim Halim

Institut Teknologi Bandung, Indonesia



Dr. Abdul Hakim Halim is a Professor at Industrial Engineering Department, Bandung Institute of Technology (BIT), Indonesia. He received his PhD in Industrial Engineering from University of Osaka Prefecture, Japan, and BS/MSc in Industrial Engineering from BIT.

His research interests include production planning and control, manufacturing systems design, and manufacturing strategy. He has published research outcome on Scheduling in International Journal of Production Research (IJPR), European Journal of Operational Research (EJOR), International Journal of Production Economics (IJPE), Production Planning and Control, and other international journals, as well as in many international/national conference proceedings. He also served as one of Guest-Editors for Computers and Industrial Engineering.

Dr. Hakim is currently President of Asia Pacific Industrial Engineering and Management Society (APIEMS), and a fellow of APIEMS and IEOM (Industrial Engineering and Operations Management). From 2009 to 2017, he had been Head of Coordinating Office for Private Universities located in West Java and Banten Provinces, Ministry of Research, Technology and Higher Education, supervising more than 450 private universities.



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Profile

of Keynote speaker 2

Assoc. Prof. Dr. Adibah Shuib

President Management Science and Operations

Research Society of Malaysia (MSORSM)



Dr. Adibah Shuib is an Associate Professor at the Faculty of Computer and Mathematical Sciences (FSKM), Universiti Teknologi MARA (UiTM). She joined UiTM in 1989, at the age of 22 years old, right after completing her Master's degree. She received her BSc. (Mathematics) and MSc. (Computational & Applied Mathematics) from the Old Dominion University, USA and PhD in Mathematics & Statistics (Management Mathematics) from University of Birmingham, UK. Currently, she is the Deputy Director (Research and Education) of the Malaysia Institute of Transport (MITRANS).

Dr. Adibah is the President of the Management Science / Operations Research Society of Malaysia (MSORSM) since 2015 and, currently, the Secretary of the Asia Pacific Operations Research Society (APORS). She had been the Honorary Treasurer of the Confederation of Scientific and Technological Associations in Malaysia (COSTAM) from 2016 until 2019. She has also held various prior administrative positions at UiTM including as UiTM's Head of Strategic Planning (Performance Measurement), Head of Research and Publications at MITRANS, Deputy Dean (Quality and Research) and Deputy Dean (Academic) of FSKM.

Her deep research interests lie in mathematical programming / optimization modelling, simulation and decision-making models, involving various areas of applications such as vehicle routing problems, transport scheduling problems, diet planning, workforce scheduling, machines scheduling, portfolio investments and network optimization.



Profile

of Keynote speaker 3

Assoc. Prof. Dr. Wichai Chattinnawat

Chiang Mai University, Thailand



Dr. Wichai Chattinnawat is an associate professor of Industrial Engineering at Chiang Mai University in Thailand. He holds Ph.D. and M.S. in Industrial Engineering, and a M.S. in Statistics from Oregon State University. He has published papers focusing on Statistical Process Control (SPC), Quality and Productivity improvement, and concurrent design of sustainable quality and productivity.

Dr. Wichai Chattinnawat has worked and focused on the sustainable production especially the application of ISO14051 of Material Flow Cost Accounting (MFCA). He has served as an expert for Asian Productivity Organization (APO) and conducted initiative on MFCA project for shoe industry in Bangladesh. He provides training on the MFCA to National Productivity Organization in Pakistan, Iran and Thailand. He conducted MFCA research for National Science and Technology Development Agency (NSTDA) of Thailand and provides consulting to firms in Thailand in applying the MFCA to reduce cost and improve efficiency. He has been regarded as a leader in the MFCA technique in Thailand

Profile of Keynote speaker 4

Dato' Ir Rohaizi Mohd Jusoh

CEO of CREAM



Dato' Ir Rohaizi Mohd Jusoh started his career as a Civil Engineer at Wimpey Construction, United Kingdom in 1988 upon graduating with a B.Eng (Hons) Civil Engineering from University of Glasgow, Scotland. He later joined Techart Consultant as a Resident Engineer from 1989 to 1993 before joining Majlis Amanah Rakyat (MARA) in 1993. He served MARA for 3 years from 1993 to 1996 and then moved to Construction Industry Development Board (CIDB) in 1996. In 2002, he was appointed as a Chief Operation Officer of Akademi Binaan Malaysia Johor until 2005. In 2015, he was seconded to Unit Pengurusan Pasca Banjir, now known as National Disaster Management Agency (NADMA) under Prime Minister Office until 2019 as the Director of Technical and Infrastructure Department. He then back to CIDB in February 2019 to lead Construction Research Institute of Malaysia as the Chief Executive Officer.

Dato' Ir Rohaizi Mohd Jusoh has and continues to impart his views and expertise in the area of construction and infrastructure in various government institutions and non-governmental organisations, among others, as a Professional Engineer at Board of Engineers Malaysia (BEM), Certified Construction Project Manager, Corporate Member with Chartered Institute of Building United Kingdom, Member of the Institution Perak State Secretary Incorporation (SSI), Member of Lembaga Perumahan Perak, Adjunct Professor at Lincoln University and Linton University, as well as External Examiner at Universiti Teknologi Malaysia (UTM).

Profile of Keynote speaker 5

Prof. Dr. Md. Haider Ali Biswas

Khulna University, Bangladesh



Dr. Haider Ali Biswas is currently affiliated with Khulna University, Bangladesh as a Professor of Mathematics under Science Engineering and Technology School and currently holds the position of the Head of Mathematics Discipline. Prof. Biswas obtained his B Sc (Honors) in Mathematics and M Sc in Applied Mathematics in the year 1993 and 1994 respectively from the University of Chittagong, Bangladesh, M Phil in Mathematics in the year 2008 from the University of Rajshahi, Bangladesh and Ph D in Electrical and Computer Engineering from the University of Porto, Portugal in 2013. He has more than 18 years teaching and research experience in the graduate and post-graduate levels at different public universities in Bangladesh.

He published three (03) Books, three Book chapters and more than 80 research papers in the peer reviewed journals and international conferences. Prof. Biswas has worked at several R & D projects in home and abroad as PI and/or Researcher. His present research interests include Applied Mathematics, Dynamic Optimization, Optimal Control with State Constraints, Nonsmooth Analysis, Mathematical Modeling and Simulation, Mathematical Biology and Biomedicine, Epidemiology of Infectious Diseases. He is the life/general members of several professional societies and/or research organizations like Bangladesh Mathematical Society (BMS), Asiatic Society of Bangladesh (ASB), Institute of Mathematics and its Applications (IMA), UK, European Mathematical Society (EMS) and Society for Mathematical Biology (SMB).

Dr. Biswas was the General Secretary of Mathematical Forum Khulna in 2013–2015. Dr. Biswas organized several national and international seminars/workshops/conferences in home and abroad and he has been working as editor/member of editorial boards of several international peer-reviewed journals. He also delivered more than 15 Invited/Keynote talks to different international workshop/conference in home and abroad. Recently Professor Biswas has been nominated as the Member of the Council of Asian Science Editors (CASE) for 2017–2020 and the Associate Member of the Organization for Women in Science for the Developing World (OWSD) since 2017.

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ico6	Lusy Muharlisiani, Yoyok Soesatyo, Endang Noerhartati, Siti Bariroh, Johny Sugiono and Abdul Talib Bin Bon	Improving Professional Competence of Lecturer in the Industrial Revolution 4.0 by Information Communication Technology (ICT)	4
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